Amendments to the Specification:

Please replace the paragraph beginning on line 33 of page 3 with the following amended paragraph:

Two matrices are introduced: **V** is the ~~eignenvector~~ eigenvector matrix for $\mathbf{H}^H\mathbf{H}$ and Λ is the eigenvalue matrix for $\mathbf{H}^H\mathbf{H}$. Device 100 transmits the product **As**, where the matrix **A** is the spatial multiplexing transmit matrix, where $\mathbf{A} = \mathbf{VD}$. The matrix $\mathbf{D} = \text{diag}(d_1,...,d_L)$ where $|d_p|^2$ is the transmit power in p^{th} mode, or in other words, the power of the p^{th} one of the L signals where p = 1 to L. Device 200 receives **HAs** + **n**, and after maximal ratio combining for each of the modes, device 200 computes $\mathbf{c} = \mathbf{A}^H\mathbf{H}^H\mathbf{HAs} + \mathbf{A}^H\mathbf{H}^H\mathbf{n} = \mathbf{D}^H\mathbf{D}\Lambda\mathbf{s} + \mathbf{D}^H\mathbf{V}^H\mathbf{H}^H\mathbf{n}$.